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- *of inventorship (Rule 4.17(iv)) for US only*

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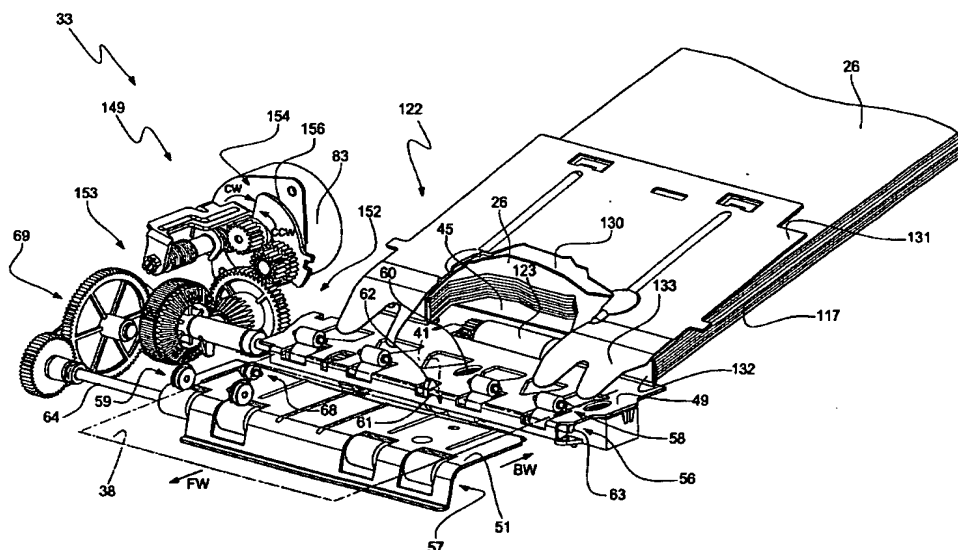
— with international search report

[Continued on next page]

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(54) Title: PAPER FEEDING DEVICE FOR DOT PRINTERS FOR EXAMPLE INK JET PHOTOGRAPHIC PRINTERS



(57) Abstract: Paper feeding device (33) for ink jet photographic printers, comprising a paper feeding motor (83) for preparing and feeding sheets to be printed (26) for printing. The feeding device (33) is characterized in that it comprises a changeover mechanism (149) disposed downstream of the paper feeding motor (83) and suitable for activation in response to predetermined operating conditions of the printer for moving a sheet (26) at high speed in the preparation stage and at high resolution in association with printing.

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— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

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19 February 2004

INTERNATIONAL SEARCH REPORT

International Application No

PCT/IT 03/00215

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 B41J13/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 B41J

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	PATENT ABSTRACTS OF JAPAN vol. 007, no. 244 (M-252), 28 October 1983 (1983-10-28) & JP 58 131084 A (TOKYO SHIBAURA DENKI KK), 4 August 1983 (1983-08-04) abstract	1
A	---	20, 27
X	US 4 630 949 A (BOELLA MARCELLO ET AL) 23 December 1986 (1986-12-23) column 1, line 50 - line 66; figure 1	24
X	PATENT ABSTRACTS OF JAPAN vol. 012, no. 434 (M-764), 16 November 1988 (1988-11-16) & JP 63 170054 A (NEC CORP; OTHERS: 01), 13 July 1988 (1988-07-13) abstract	24

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☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

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Date of the actual completion of the international search

19 November 2003

Date of mailing of the international search report

10. 12. 2003

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INTERNATIONAL SEARCH REPORT

Intern. Application No
PCT/IT 03/00215

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>US 4 789 259 A (KATAYANAGI JUN) 6 December 1988 (1988-12-06) abstract</p> <p>-----</p>	1,20,27

INTERNATIONAL SEARCH REPORT

International application No.
PCT/IT 03/00215

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☒ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

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- ☒ No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

International Application No. PCT/IT 03 00215

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. Claims: 1-23; 27

Paper feeding device comprising a changeover mechanism to move a sheet to be printed at high speed in a preparation stage and at high resolution in association with printing

2. Claims: 24-26

Paper feeding device comprising a worm screw and a helical wheel for moving a sheet at high resolution in association with printing

INTERNATIONAL SEARCH REPORT
Information on patent family members

International Application No
PCT/IT 03/00215

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
JP 58131084	A	04-08-1983	NONE	
US 4630949	A	23-12-1986	IT 1159608 B BR 8404520 A DE 3470696 D1 EP 0139411 A1 JP 60087081 A	04-03-1987 06-08-1985 01-06-1988 02-05-1985 16-05-1985
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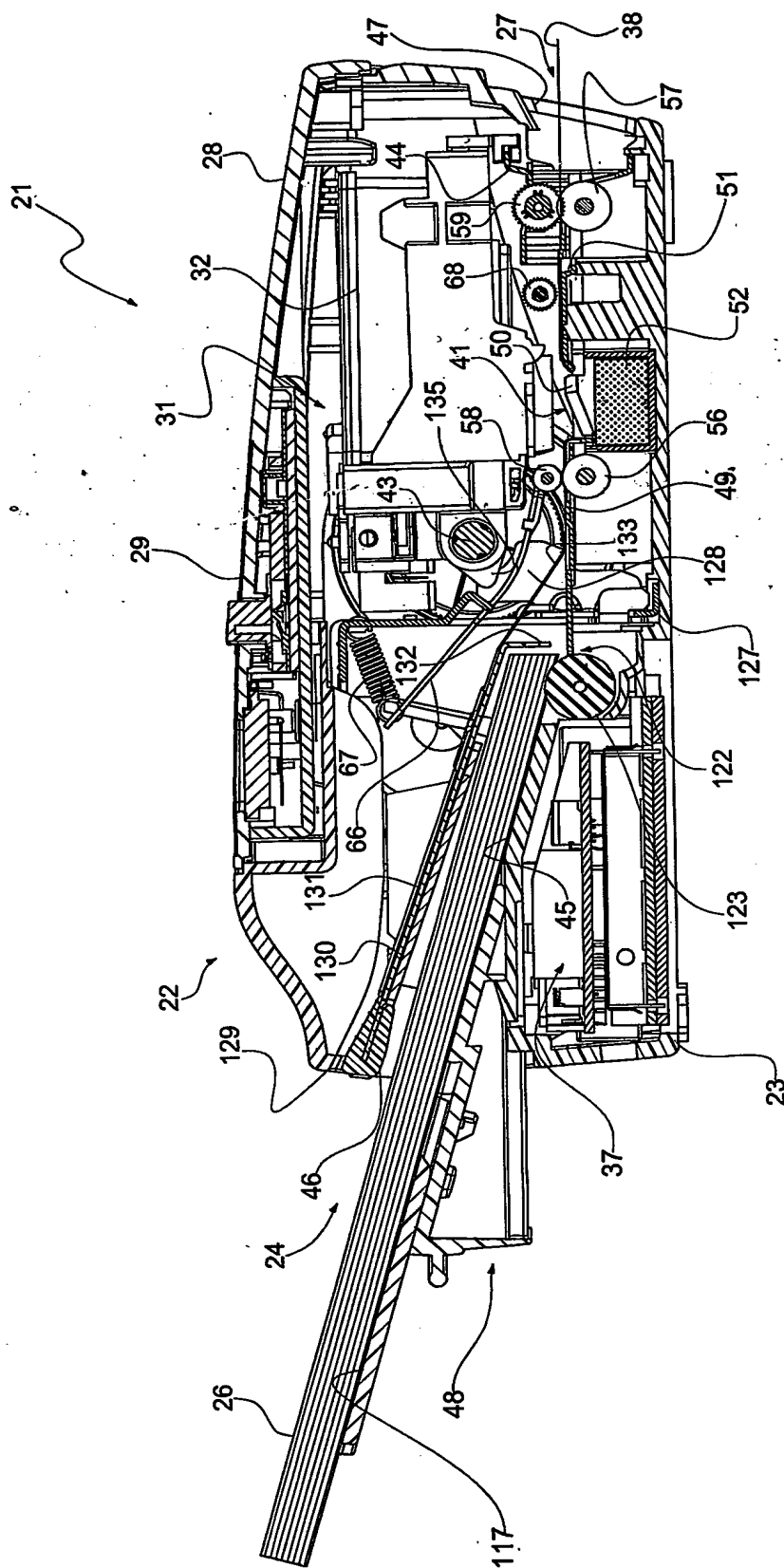
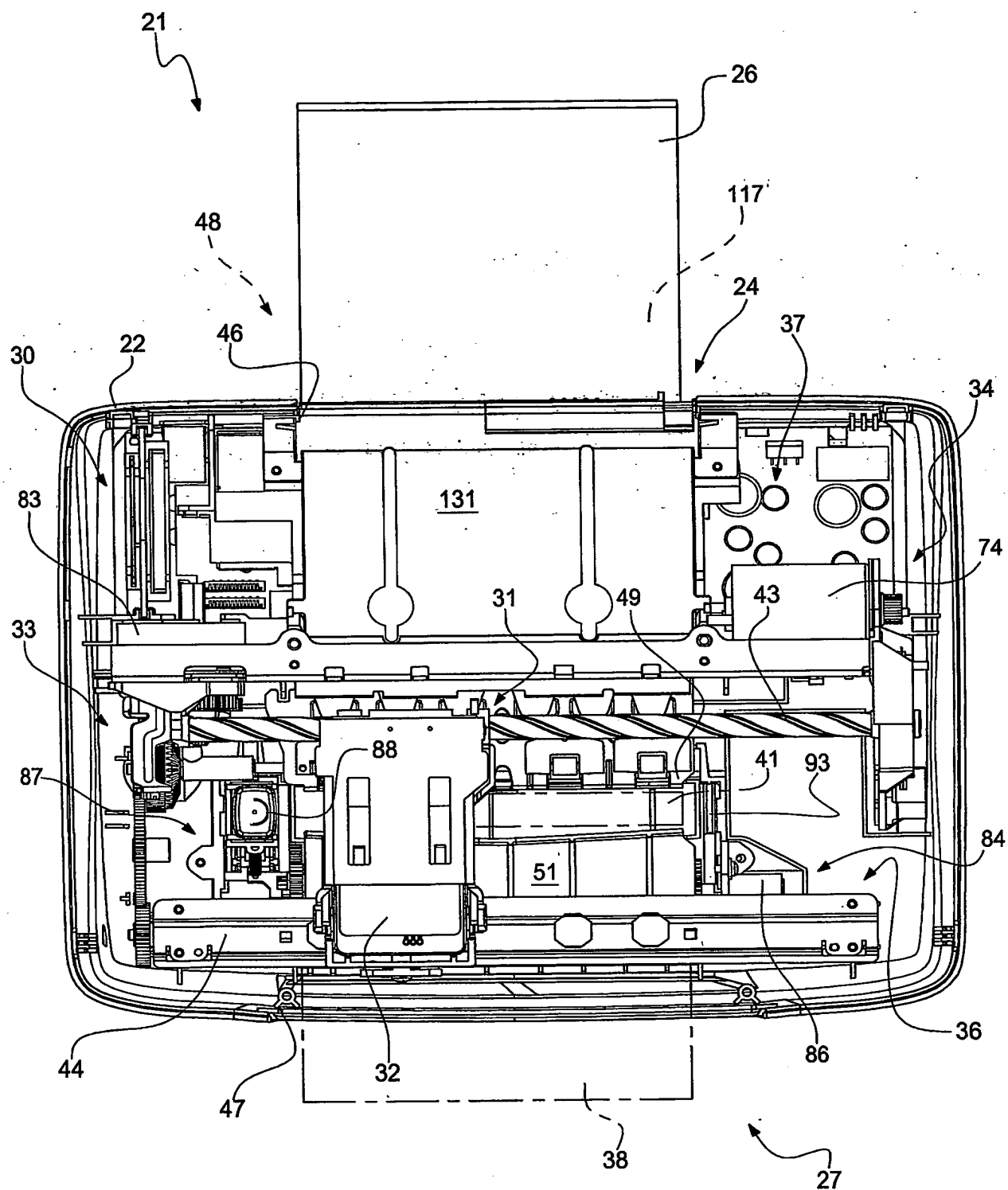


Fig. 1

*Fig. 2*

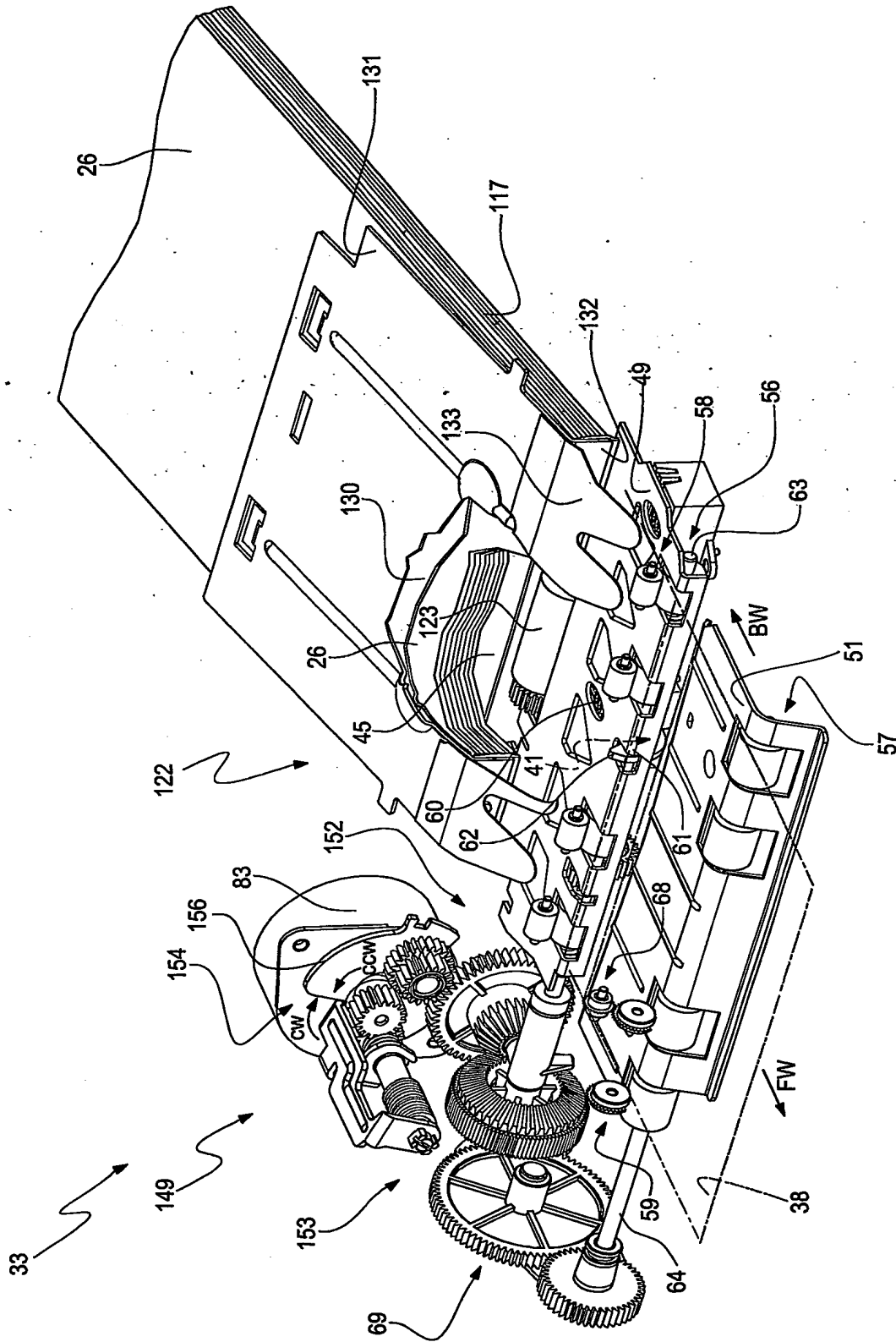
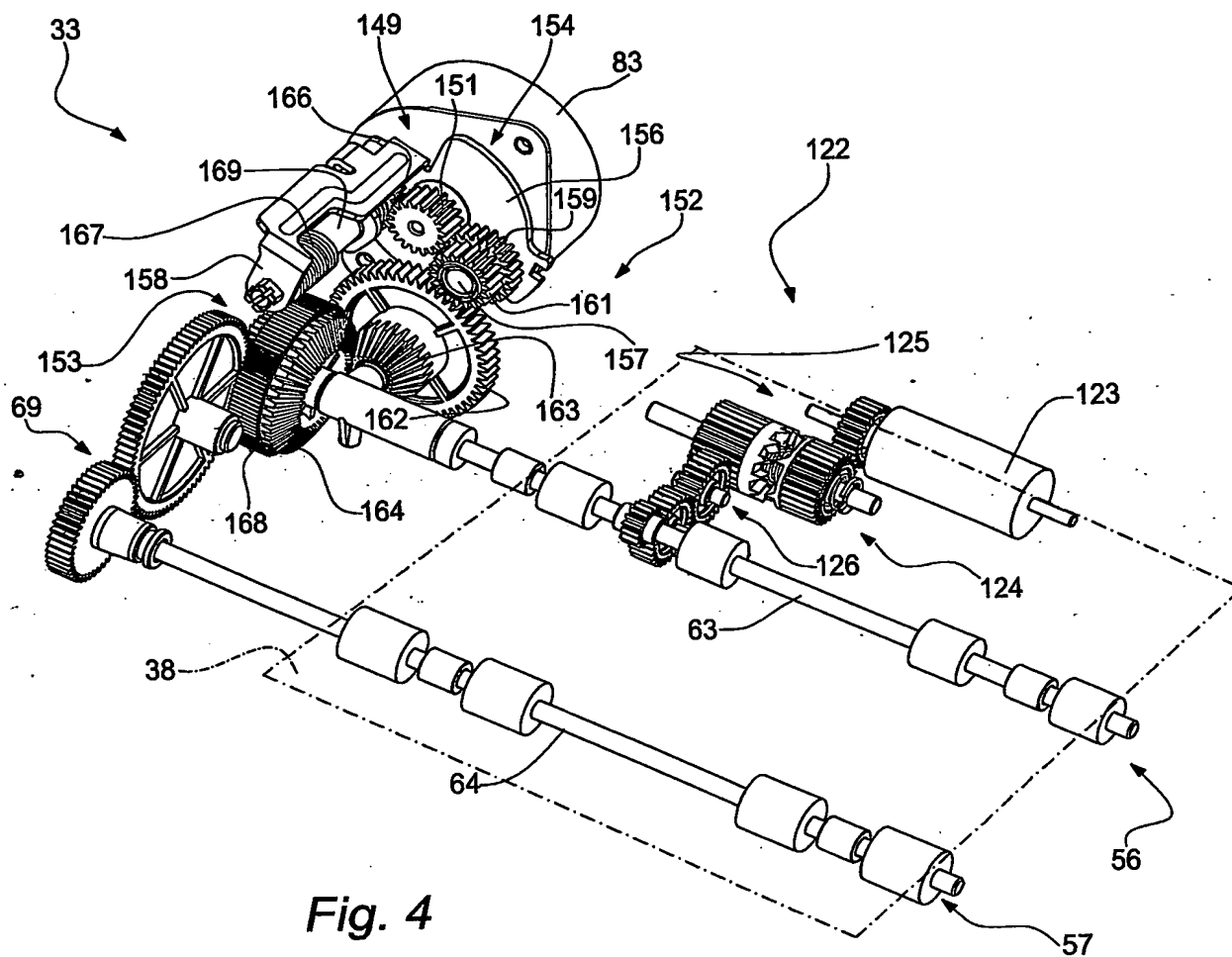
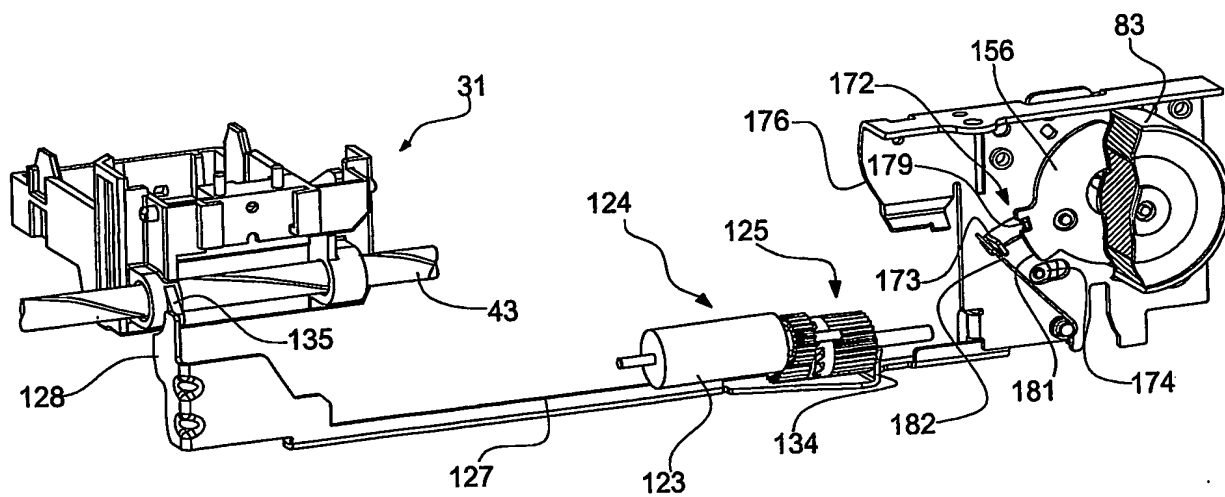


Fig. 3

*Fig. 4**Fig. 5*

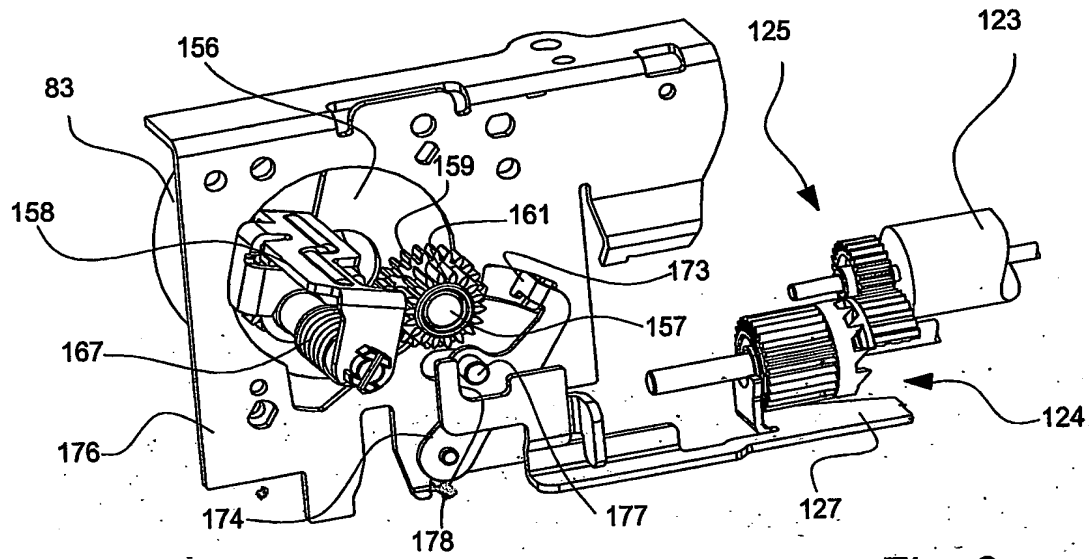


Fig. 6

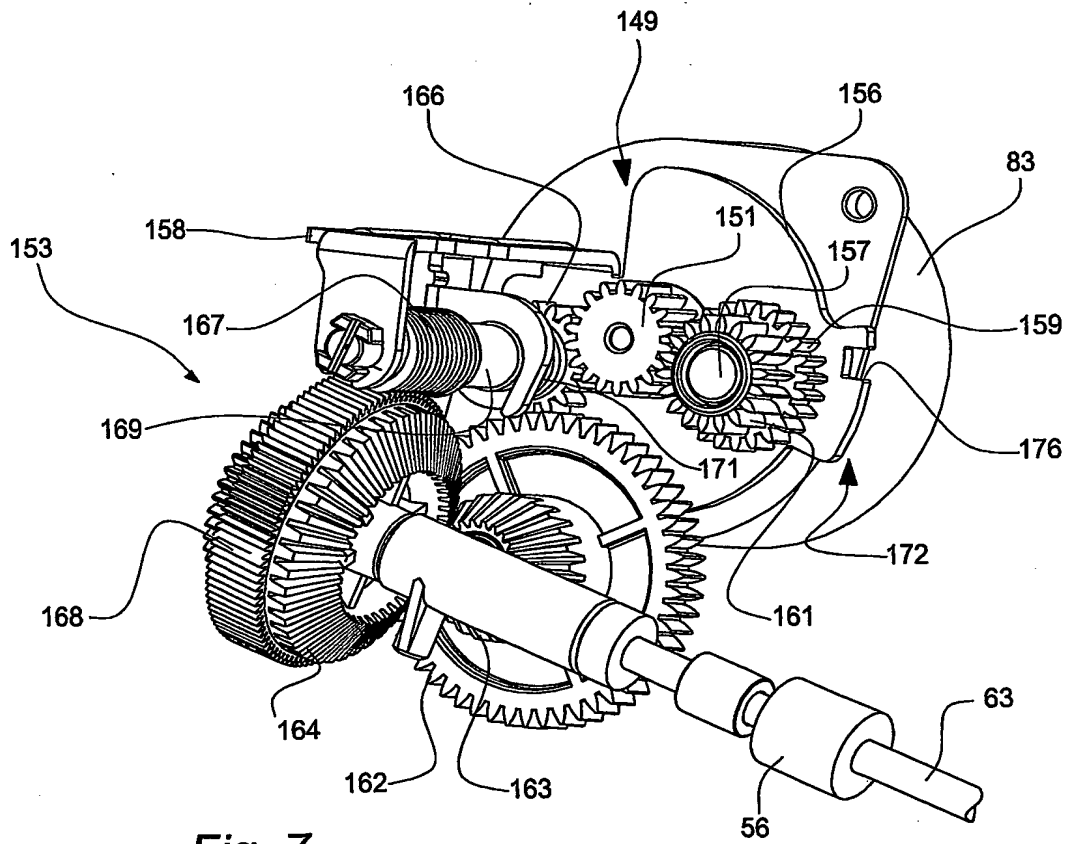


Fig. 7

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